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# ETHYL CORPORATION

CORPORATE ENVIRONMENTAL AFFAIRS

May 15, 1984

PLEASE ADDRESS REPLY  
TO: P. O. BOX 341  
BATON ROUGE, LA. 70821

Mr. Dan Hopkins  
U. S. EPA  
Region V  
230 South Dearborn Street  
Chicago, Illinois 60604

Dear Mr. Hopkins:

Re: Draft Sampling Plan - Round Four  
Construction Project ECI, Sauget,  
Illinois

Attached is a draft sampling plan for the project in the unit 268 construction site. The sampling areas and methodology are those we discussed on the telephone May 14, 1984.

Please call me at (504) 359-2191 after your initial review if you have any questions.

Sincerely,

*Judy Parson*  
J. W. Parson

JWP:jht

Attachment

DRAFT

Proposed Soil Sampling Program - Fourth Round

ECI, Sauget, Illinois

Summary

ECI will perform area sampling in those areas of the construction project which will be sealed with asphalt or covered with concrete. In those portions of the construction project which will be covered with rock, ECI will not perform additional soil samples. This area will remain readily accessible for sampling in the future, should further testing be warranted.

*TT Add: Finally, ~~sample~~ rather than sample the existing dirt soil immediately we prefer to sample the soil after it has been placed in the dike area prior to covering with asphalt. S.S. Bucket Auger*

All samples will be obtained with a (name and manufacturer of equipment) sampler to a total depth of 18 inches. Each sample will be divided into three equal segments: 0-6", 6"-12" and 12"-18".

*If any piles of soil should remain ~~found~~ and not placed in the dike area, these piles will be sampled separately.*

Initially, only the 0-6" composited sample from each of the sampling areas will be analyzed. If the analytical results indicate 2,3,7,8 TCDD greater than 1 ppb in the surface sample, the composite from the next level (6"-12") will be analyzed. Analysis of the 12-18" sample and additional samples as may be required will <sup>also</sup> be composited, should further testing be ~~was~~ required.

*TT All samples will be analyzed by Envirologics Laboratories following protocol as outlined under the National Laboratory Contract Ag.*

All samples will be retained following analysis.

Refer to attached drawing

Those areas of the construction project which will be covered with asphalt or concrete are enclosed within the solid red line. The areas with concrete are indicated by diagonal lines; asphalt, crossed diagonal lines. A total of ~~seven~~ <sup>8.</sup> area samples will be taken. Each area is designated with a blue number.

Each sampling area is further segmented into four quadrangles of approximately equal surface area. A single core sample will be taken at a location near the center of each quadrangle. *→ measurements will be taken from two fixed points to and recorded to identify the sampling location should future* The four samples from the quadrangles will be segmented. The segments will be composited by depth from the surface. *If the compositing of the segments will be completed on site, as sampled, in a S.S. pan and by use of a S.S. spatula for mixing* All 0-6" segments from the quadrangles in a sampling area will be composited and analyzed as a single sample. The analytical result will represent the average concentration of *Like the 6-12" 12" to 18" segments will be composited as a single sample.* 2,3,7,8 TCDD within that sampling area boundary.

→ the composited samples will then be placed in amber glass jars with teflon lined lids. *Primary* Labels will be attached to the sample jar. The sample jar will then be sealed in a zip lock plastic bag.